| L Number | Hits | Search Text  | DB       | Time stamp         |
|----------|------|--|----------|--------------------|
| •        | 160  | rclk with welk   | USPAT    | 2004/03/04 11:14   |
| -        | 10   | (rcik with wcik) with (phase margin)   | USPAT    | 2004/03/02 17:52   |
| •        | 2    | 4.clm.   | USPAT    | 2004/03/01 13:18   |
| •        | 15   | (rclk with wclk) same phase  | USPAT    | 2004/03/01 13:2:   |
| •        | 1214 | "read clock" with "write clock"  | USPAT    | 2004/03/02 17:53   |
|          | 3    | ("read clock" with "write clock") with "phase relationship"                                | USPAT    | 2004/03/03 15:0    |
|          | 6    | (("read clock" with "write clock") with phase) same bus                                    | USPAT    | 2004/03/01 13:20   |
| •        | 160  | ("read clock" with "write clock") with phase   | USPAT    | 2004/03/01 14:20   |
| •        | 7    | (rclk with welk) with bus  | USPAT    | 2004/03/01 17:0    |
| •        | 51   | "read clock" with "write clock" with bus   | USPAT    | 2004/03/01 18:1    |
|          | 14   | "read clock" with "write clock" and micron.as.   | USPAT    | 2004/03/01 18:1    |
| .        | 15   | (rclk with wclk) same phase  | USPAT    | 2004/03/02 17:5    |
| .        | 0    | (rclk with wcik) same bidirectional  | USPAT    | 2004/03/02 17:5    |
| .        | 6    | "read clock" with "write clock" same bidirectional   | USPAT    | 2004/03/02 17:5    |
| .        | 84   | "read clock" with "write clock" same synchronous   | USPAT    | 2004/03/02 17:5    |
|          | 23   | "read clock" with "write clock" same phase adj (alignment                                  | USPAT    | 2004/03/03 17:3    |
| 1        |      | relationship offset shift)   |          |                    |
| .        | 86   | "read clock" with "write clock" same (pil dil)   | USPAT    | 2004/03/02 18:1    |
|          | 1    | "800191"   | US-PGPUB | 2004/03/02 18:1    |
|          | 3    | "800851" "810302" "811256"   | US-PGPUB | 2004/03/02 18:1    |
|          | 18   | ("read clock" "write clock") with "phase relationship"                                     | USPAT    | 2004/03/03 15:2    |
|          | 163  | bus with "phase relationship"  | USPAT    | 2004/03/03 15:2    |
|          | 27   | 64.clm.  | USPAT    | 2004/03/03 16:4    |
|          | 417  | (return\$3 forwarded) adj clock  | USPAT    | 2004/03/03 16:4    |
|          | 36   | ((return\$3 forwarded) adj clock) same bus   | USPAT    | 2004/03/03 17:1    |
|          | 7238 | "memory module"  | USPAT    | 2004/03/03 17:1    |
|          | 15   | "memory module" same "clock lines"   | USPAT    | 2004/03/03 19:1    |
|          | 350  | bus with "clock lines"   | USPAT    | 2004/03/03 17:3    |
| 1        | 11   | 70.ab.   | USPAT    | 2004/03/03 17:3    |
| ·        | 23   | "clock lines" same phase adj (alignment relationship offset                                | USPAT    | 2004/03/03 17:4    |
| ·        | 23   | shift)   | 00.7.1   | 200 1, 00, 00 = 11 |
|          | 190  | "clock lines" with phase   | USPAT    | 2004/03/03 17:4    |
|          | 7    | 73.ab.   | USPAT    | 2004/03/03 17:3    |
|          | 74   | rclk with telk   | USPAT    | 2004/03/04 12:4    |
| '        | 31   | (rcik with tcik) with phase  | USPAT    | 2004/03/03 17:4    |
| '        |      | (rcik with telk) with phase (rcik with telk) same phase adj (alignment relationship offset | USPAT    | 2004/03/03 17:     |
| ·        | 10   |  | USPAI    | 2004/03/03 17.     |
|          | 4=   | shift)   | USPAT    | 2004/03/03 17:     |
| •        | 15   | "clock lines" with (pil dil)   | 1        | 2004/03/03 17:     |
|          | 43   | between adj "clock lines"  | USPAT    | 2004/03/03 17:5    |
|          | 591  | fifo near2 (delay latency)   |          |                    |
| ·        | 9    | (fifo near2 (delay latency)) same phase adj (alignment                                     | USPAT    | 2004/03/03 18:3    |
|          |      | relationship offset shift)   |          | 0004 (00 (00 47)   |
| ·        | 181  | fifo same phase adj (alignment relationship offset shift)                                  | USPAT    | 2004/03/03 17:     |
|          | 7    | 82.ab.   | USPAT    | 2004/03/03 17:     |
| .        | 0    | 6646929.URPN.  | USPAT    | 2004/03/03 18:0    |
|          | 3    | ("5406427"   "5774697"   "6332010").PN.  | USPAT    | 2004/03/03 18:0    |
| .        | 17   | "memory controller" with phase adj (alignment relationship                                 | USPAT    | 2004/03/03 19:0    |
|          |      | offset shift)  |          |                    |
|          | 0    | "memory controller" same phase adj (alignment relationship                                 | IBM_TDB  | 2004/03/03 19:0    |
|          |      | offset shift)  |          |                    |
|          | 0    | "memory controller" same phase adj (alignment relationship                                 | JPO      | 2004/03/03 19:0    |
|          |      | offset shift)  |          |                    |
| .        | 28   | "predetermined phase" adj (alignment relationship offset                                   | JP0      | 2004/03/03 19:0    |
| .        |      | shift)   |          |                    |
| .        | 3    | "predetermined phase" adj (alignment relationship offset                                   | IBM_TDB  | 2004/03/03 19:     |
|          | _    | shift)   |          |                    |
| _        | 1863 | "predetermined phase" adj (alignment relationship offset                                   | USPAT    | 2004/03/03 19:0    |
|          | _000 | shift)   |          | , , , , , , ,      |
| .        | 21   | ("predetermined phase" adj (alignment relationship offset                                  | USPAT    | 2004/03/03 19::    |
|          |      | shift)) with bus   | 1        | 122 3, 23, 23 201  |

|   | 59        | ("predetermined phase" adj (alignment relationship offset shift)) with memory | USPAT         | 2004/03/03 19:10    |
|---|-----------|---|---------------|---------------------|
|   | 438       | memory same "clock lines"   | USPAT         | 2004/03/03 19:18    |
| İ | 22        | 96.ab.  | USPAT         | 2004/03/03 19:18    |
|   | 139       | mosaid.as.  | USPAT         | 2004/03/04 11:33    |
|   | 15        | "advanced memory".as.   | USPAT         | 2004/03/04 11:39    |
|   | 1529      | memory adj (device module) same clock near2 (generat\$3                       | USPAT         | 2004/03/04 11:50    |
|   | 2020      | regenerat\$3)   |               |                     |
|   | 950       | memory adj (device module) with clock near2 (generat\$3                       | USPAT         | 2004/03/04 11:50    |
| Ì | 330       | regenerat\$3)   |               | 200 1, 00, 01 ==101 |
| 1 | 150       | "memory module" same clock near2 (generat\$3 regenerat\$3)                    | USPAT         | 2004/03/04 11:50    |
|   | 158<br>15 | 3.ab.   | USPAT         | 2004/03/04 11:55    |
|   | i         |   | USPAT         | 2004/03/04 12:4     |
|   | 21        | (rclk with tclk) same bus   |               | 2004/03/04 12:4:    |
|   | 5         | ("6215727"   "6347367"   "6370053"   "6377510"                                | USPAT         | 2004/03/04 13:5.    |
| į | _         | "6424555").PN.  |               | 0004 (00 (04 40-5)  |
|   | 5         | "predetermined phase" with pair near2 clock\$1                                | USPAT         | 2004/03/04 13:5     |
|   | 42        | "predetermined phase" with bus  | USPAT         | 2004/03/04 17:03    |
|   | 442       | hitachi.as. and "memory controller"   | USPAT         | 2004/03/04 15:5     |
|   | 46        | hitachi.as. and "memory controller".ab.                                       | USPAT         | 2004/03/04 14:3     |
|   | 194       | hitachi.as. and "predetermined phase"   | USPAT         | 2004/03/04 15:0     |
|   | 66        | clock adj line\$1 with tap\$4   | USPAT         | 2004/03/04 15:3     |
|   | 186       | bus adj line\$1 with tap\$4   | USPAT         | 2004/03/04 15:2     |
|   | 9         | (forward with reverse) with (dil pli)   | USPAT         | 2004/03/04 15:2     |
|   | 19        | 18.clm.   | USPAT         | 2004/03/04 15:2     |
|   | 72        | clock adj line\$1 with feedback   | USPAT         | 2004/03/04 15:3     |
|   | 642       | hitachi.as. and "clock generator"   | USPAT         | 2004/03/05 12:1     |
|   | 30        | hitachi.as. and "clock generator".ab.   | USPAT         | 2004/03/04 16:0     |
|   | 4         | ("4989223"   "5548620"   "5706474"   "5933623").PN.                           | USPAT         | 2004/03/04 16:1     |
|   | 609       | "read clock" near (generat\$3 regenerat\$3)                                   | USPAT         | 2004/03/04 17:0     |
|   | 14        | ("read clock" near (generat\$3 regenerat\$3)) same memory                     | USPAT         | 2004/03/04 16:4     |
|   | 14        | adj (system device module)  | <b>30.</b> A. | 2001, 00, 01 2011   |
|   | 40        |   | USPAT         | 2004/03/04 16:4     |
|   | 18<br>34  | separate adj (read near write) adj (cik clock)                                | USPAT         | 2004/03/04 17:0     |
|   |           | 29.ab.  | USPAT         | 2004/03/04 17:4     |
|   | 17        | "fixed phase" with bus  | USPAT         | 2004/03/04 20:2     |
|   | 14        | (pil dii) with tap\$4 near (center midpoint)                                  |               |                     |
|   | 4         | (bus clock) adj line with tap\$4 near (center midpoint)                       | USPAT         | 2004/03/04 17:4     |
|   | 589       | (pli dil) with (center midpoint)  | USPAT         | 2004/03/04 17:4     |
|   | 3         | ((pil dii) with (center midpoint)) with bus                                   | USPAT         | 2004/03/04 19:0     |
|   | 67        | clock with tap\$4 near (center midpoint)                                      | USPAT         | 2004/03/04 18:0     |
|   | 33        | 42.ab.  | USPAT         | 2004/03/04 17:5     |
|   | 345       | feedback with tap\$4 near (center midpoint)                                   | USPAT         | 2004/03/04 18:0     |
|   | 16        | 47.ab.  | USPAT         | 2004/03/04 18:0     |
|   | 14        | 49.ab.  | USPAT         | 2004/03/04 18:0     |
|   | 276       | phase near4 tap\$4 near (center midpoint)                                     | USPAT         | 2004/03/04 19:0     |
|   | 279       | "phase relationship" with (center midpoint)                                   | USPAT         | 2004/03/04 20:5     |
|   | 7         | ((pll dll) with (center midpoint)) same bus                                   | USPAT         | 2004/03/04 19:0     |
|   | 11        | (adjust\$3 regulat\$3) adj phase near2 (center midpoint)                      | USPAT         | 2004/03/04 20:4     |
|   | 87        | (adjust\$4 regulat\$3) adj2 phase with bus                                    | USPAT         | 2004/03/04 19:5     |
|   | 0         | (pil dil) with tap\$4 near (midway middle)                                    | USPAT         | 2004/03/04 20:2     |
|   | 104       | (pil dil) with (midway middle)  | USPAT         | 2004/03/04 20:2     |
|   | 25        | (adjust\$3 regulat\$3) adj phase with (middle midway)                         | USPAT         | 2004/03/04 20:4     |
|   | 35        | "phase relationship" with (midway middle)                                     | USPAT         | 2004/03/04 20:5     |
|   | 733       | (midway middle midpoint center centerpoint) adj2 (path trace                  | USPAT         | 2004/03/06 13:0     |
|   | 133       | line) with phase  |               |                     |
|   | 26        | 63.ab.  | USPAT         | 2004/03/04 20:5     |
|   |           | (midway middle midpoint center centerpoint) adj2 (path trace                  | USPAT         | 2004/03/04 21:3     |
|   | 153       | 1 7   | USFAI         | 2007/ 03/ 04 ZIS    |
|   | _         | line) with clock  | HEDAT         | 2004/02/04 04:4     |
|   | 0         | 6584576.URPN.   | USPAT         | 2004/03/04 21:1     |
|   | 10        | ("5426771"   "5796673"   "5844438"   "5923198"                                | USPAT         | 2004/03/04 21:1     |
|   |           | "5987576"   "6031787"   "6101612"   "6108795"                                 |               |                     |

| • | 133  | (midway middle midpoint center centerpoint) adj2 (path trace line) with synchroniz\$3                                 | USPAT | 2004/03/04 21:32 |
|---|------|---|-------|------------------|
| - | 77   | (midway middle midpoint center centerpoint) adj2 (path trace line) with phase adj (difference alignment relationship) | USPAT | 2004/03/04 21:36 |
| - | 255  | rambus.as.  | USPAT | 2004/03/05 11:43 |
| - | 1    | 6426984.URPN.   | USPAT | 2004/03/05 10:09 |
| - | 8    | ("4847867"   "5355391"   "5432823"   "5485490"  <br>"5619158"   "5724392"   "6049846"   "6233294").PN.                | USPAT | 2004/03/04 21:52 |
| - | 3    | "6336190"   | USPAT | 2004/03/05 11:37 |
| - | 10   | "memory module" with ("read clock" rcik)  | USPAT | 2004/03/05 12:14 |
| - | 9    | ("5778446"   "5890195"   "5917760"   "5987244"  | USPAT | 2004/03/05 11:55 |
|   |      | "6125421"   "6154821"   "6182112"   "6442644"  <br>"6445624").PN.   |       |                  |
| - | 18   | "memory module" same ("read clock" rcik)  | USPAT | 2004/03/05 12:14 |
| - | 106  | hitachi.as. and "clock generator".clm.  | USPAT | 2004/03/05 12:37 |
| - | 2276 | 365/233.ccls.   | USPAT | 2004/03/05 12:37 |
| - | 404  | 365/233.ccls. and (clock timing) adj (generator regenerator)  | USPAT | 2004/03/05 12:38 |
| - | 7    | 365/233.ccls. and (read\$3 rclk) near2 (clock timing) adj<br>(generator regenerator)                                  | USPAT | 2004/03/05 12:39 |
| - | 425  | memory adj (controller device) with calibrat\$3   | USPAT | 2004/03/05 13:28 |
| - | 35   | 35.ab.  | USPAT | 2004/03/05 13:31 |
| - | 102  | "memory bus" with (generator regenerator)   | USPAT | 2004/03/05 13:37 |
| - | 2    | "memory bus" with (rclk "read clock")   | USPAT | 2004/03/05 13:38 |
| - | 66   | "clock buffer" with (rclk "read clock")   | USPAT | 2004/03/05 13:56 |
| - | 11   | external adj clock adj driver   | USPAT | 2004/03/05 15:17 |